

TOP SECRET

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010007-7

PIR



PHOTOGRAPHIC INTERPRETATION REPORT

CHRONOLOGY OF  
TOMILINO AEROSPACE RESEARCH  
AND DEVELOPMENT CENTER  
MOSKVA, USSR

Declass Review by NIMA/DOD

SEPTEMBER 1967

COPY 116

4 PAGES

GROUP 1 EXCLUDED FROM  
AUTOMATIC DOWNGRADING  
AND DECLASSIFICATION

TOP SECRET

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010007-7

25X1

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010007-7

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010007-7

RECORD COPY	COPIES	DATE	LOCATION	MASTER	DATE RECEIVED	LOCATION
DISPOSITION DATE(S)				STOCK LEVEL	MINIMUM	MAXIMUM
CUT TO COPIES	0	DATE	10-73	COPIES	1	10
CUT TO COPIES		DATE		COPIES DESTROYED		
CUT TO COPIES		DATE				
CUT TO COPIES		DATE				

DATE			RECEIVED OR ISSUED	NUMBER OF COPIES			DATE			RECEIVED OR ISSUED	NUMBER OF COPIES		
MO.	DAY	YR.		REC'D	ISS'D	BAL	MO.	DAY	YR.		REC'D	ISS'D	BAL
10	9	67	Dist. Unit #106-115	10		10							
6	25	68	NPIC #106		1	9							
9	22	72	Dist #107-115			0	W	K	G				

TITLE **NPIC**      SEC. CLASS.      LOCATION  
 25X1            Sent. 1967      TS/       3477D      25X1

TOP SECRET

## CHRONOLOGY OF TOMILINO AEROSPACE RESEARCH AND DEVELOPMENT CENTER, MOSKVA, USSR

### INTRODUCTION

This report is a study of the chronological development of the Tomilino Aerospace Research and Development Center, Moskva, USSR (55-40N 037-56E). The center is located in the Moskva suburb of Tomilino which is approximately 12 nautical miles (nm) southeast from the center of Moskva and approximately 7.5 nm northwest of the Central Aereohydrodynamic Institute (TsAGI) which is located in the suburb of Ramenskoye (Figure 1). It is situated at the intersection of the Moskva/Ryazan and the Moskva/Kazan rail lines. Rail service to the center is supplied by rail spurs from the Moskva/Kazan rail line. Other transportation services include a network of good all-weather roads.

The Center (Figures 2 and 3) has been assessed as having the responsibility for designing, developing, testing, and evaluating systems and subsystems for both spacecraft and aircraft. The center is also a principal Soviet bioastronautic research and training center.

A building-by-building construction history of the center is presented graphically in Figure 3 and in tabular form in Table 1 which also contains interpretations of the probable functions of all the structures and comments on various details of the chronology. The information contained in this report has been compiled from all available and ground photography. All item numbers mentioned in the text are listed in Table 1 and keyed to Figure 3.

### HIGHLIGHTS OF CHRONOLOGY OF TOMILINO AEROSPACE RESEARCH AND DEVELOPMENT CENTER, MOSKVA, USSR

#### 1943

On [ ] photography of [ ] the area now occupied by the center was identified as a supply depot. It

contained 190 single-story warehouses, 8 small workshops, a probable steamplant, and 2 water towers. Many of these warehouses are present on the latest photography and are probably still being used for storage of military goods.

#### 1960

A report and ground photography of [ ] provide significant construction dates and other valuable information leading to the identification of several important facilities located within the center. 1/ A laboratory building (item 124) which contains a centrifuge and a horizontal pressure bottle farm (item 113) have been added since [ ]. Three laboratory buildings (items 116, 120, and 141) were observed in an early stage of construction at this time. 1/ The report states that a thermobaric chamber

(space chamber) and a second centrifuge were to be installed in 2 of the laboratory buildings (items 120 and 116, respectively).

#### 1962

[ ] photography of [ ] provided the first usable overhead photography of the center since [ ]. This photography revealed that many of the older facilities first observed in 1943 had been removed and a large number of new facilities had been completed or were under construction. The most significant of these newly observed facilities were a transformer yard (item 53), a shop building (item 139), and a very large combination assembly and shop building (item 20) which was in an early stage of construction. The 3 laboratory buildings (items 116, 120, and 141) first seen on ground photography of [ ] had been completed.

#### 1964

There was little or no significant new construction observed during the 2-year period from [ ]. [ ] photography of [ ] revealed several new facilities under construction, which included a laboratory building (item 112) and a shop building (item 19). Both the laboratory building and the shop building were completed by [ ]. The large combination assembly and shop building (item 20) was also completed by [ ].

#### 1965-1967

The only construction activity observed during this time span was the addition of 2 apartment buildings (items 164 and 166), a laboratory/administration building (item 150), and an administration building (item 167). The most recent construction activity is the construction of a small building (item 119) which was first observed on [ ] photography of [ ].

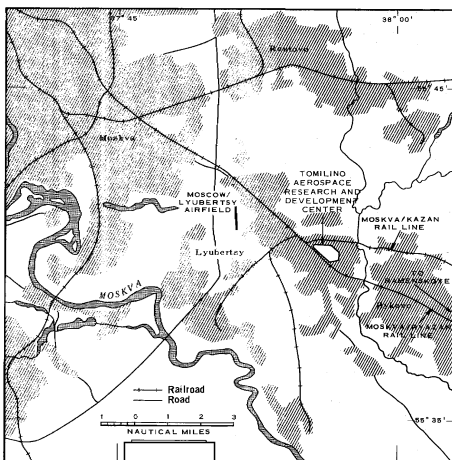


FIGURE 1. LOCATION MAP.

TOP SECRET

25X1

TOP SECRET

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010007-7

25X1

25X1



FIGURE 2. TOMILINO AEROSPACE RESEARCH AND DEVELOPMENT CENTER.

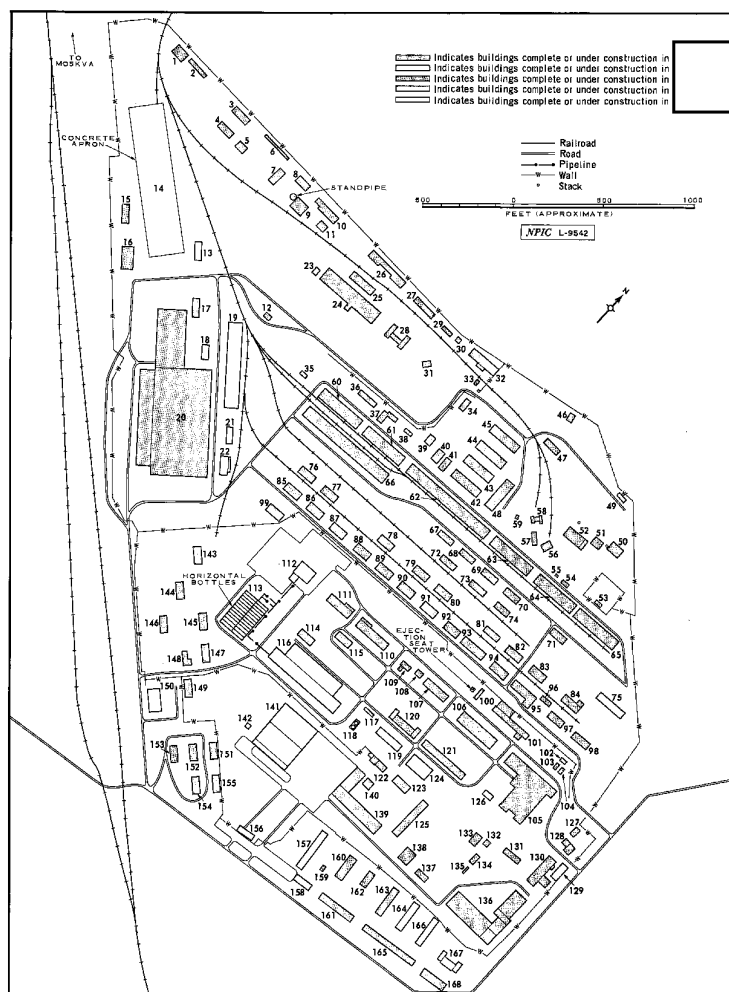


FIGURE 3. LAYOUT OF TOMILINO AEROSPACE RESEARCH AND DEVELOPMENT CENTER.

25X1

25X1

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010007-7

TOP SECRET

25X1

25X1

25X1

TOP SECRET

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010007-7

25X1

25X1

Table 1. Function/Description and Dimensions of the Structures at Tsukuba Aerospace Research and Development Center, Moscow, USSR  
(Item numbers keyed to Figure 1)

Continued from page 2 to Figure 3																					
Item	Function/Description	Dimensions (ft) L W H	Roof Cover (sq ft)	Date First Observed	Date Considered Complete	Comments	Item	Function/Description	Dimensions (ft) L W H	Roof Cover (sq ft)	Date First Observed	Date Considered Complete	Comments	Item	Function/Description	Dimensions (ft) L W H	Roof Cover (sq ft)	Date First Observed	Date Considered Complete	Comments	
1	Utility bldg	78 x 55 x --	4,125			A large water tower (stand pipe) is located adjacent to this bldg	65	Warehouse	985 x 65 x --	18,925				117	Utility bldg	70 x 90 x --	1,400			3 force-draft cooling towers serving item 116	
2	Utility bldg	185 x 30 x --	5,400				66	Warehouse	580 x 70 x --	48,600				118	Cooling towers	-- x -- x --	--				
3	Utility bldg	80 x 40 x --	3,200				67	Warehouse	100 x 35 x --	3,500				119	Bldg U/C	-- x -- x --	--				
4	Utility bldg	80 x 40 x --	3,200				68	Warehouse	100 x 35 x --	3,500				120	Laboratory bldg	Irregular x --	7,950			Probably contains a thermobaric chamber	
5	Utility bldg	80 x 40 x --	3,400				69	Warehouse	100 x 45 x --	4,500				121	Warehouse	185 x 55 x --	10,175			Contains a centrifuge	
6	Utility bldg	100 x 35 x --	3,500				70	Warehouse	100 x 40 x --	4,000				122	Warehouse	Irregular x --	4,775				
7	Utility bldg	80 x 40 x --	3,600				71	Warehouse	100 x 45 x --	4,500				123	Warehouse	100 x 50 x --	5,000				
8	Utility bldg	80 x 40 x --	3,200				72	Warehouse	105 x 35 x --	3,675				124	Laboratory bldg	181 x 90 x --	10,800				
9	Pumphouse	70 x 40 x --	2,800				73	Warehouse	105 x 35 x --	3,675				125	Shop bldg	855 x 40 x --	10,200				
10	Warehouse	Irregular x --	5,350			74	Warehouse	95 x 35 x --	3,325				126	Utility bldg	55 x 35 x --	1,925					
11	Utility bldg	80 x 40 x --	3,000			75	Warehouse	175 x 40 x --	7,000				127	Utility bldg	80 x 55 x --	1,050					
12	Utility bldg	40 x 30 x --	1,200			76	Warehouse	100 x 45 x --	4,500				128	Fire station	Irregular x --	9,400					
13	Warehouse	100 x 35 x --	3,500			77	Warehouse	100 x 45 x --	4,500				129	Admin bldg	100 x 45 x --	4,500					
14	Large concrete apron U/C	-- x -- x --	--			78	Warehouse	100 x 45 x --	4,500				130	Admin bldg	Irregular x --	13,000					
15	Admin bldg	100 x 40 x --	4,000			79	Warehouse	100 x 45 x --	4,500				131	Utility bldg	100 x 80 x --	8,000					
16	Admin bldg	125 x 70 x --	8,750			80	Warehouse	100 x 45 x --	4,500				132	Utility bldg	35 x 55 x --	1,225					
17	Warehouse	100 x 40 x --	4,000			81	Warehouse	100 x 45 x --	4,500				133	Utility bldg	65 x 30 x --	3,900					
18	Shop bldg	85 x 45 x --	3,825			82	Warehouse	100 x 45 x --	4,500				134	Utility bldg	80 x 80 x --	1,600					
19	Shop bldg	475 x 25 x --	35,000			83	Warehouse	100 x 45 x --	4,500				135	Utility bldg	45 x 15 x --	675					
20	Assembly/shop bldg	Irregular x 25-45	263,025			84	Warehouse	Irregular x --	6,150				136	Shop bldg	Irregular x 90-45	49,300					
21	Utility bldg	100 x 40 x --	4,000			85	Warehouse	100 x 45 x --	4,500				137	Utility bldg	85 x 85 x --	2,975			Probably a test and evaluation laboratory for aircraft/space systems		
22	Shop bldg	Irregular x --	5,400			86	Warehouse	100 x 45 x --	4,500				138	Utility bldg	75 x 70 x --	5,250					
23	Utility bldg	40 x 30 x --	1,200			87	Warehouse	100 x 45 x --	4,500				139	Shop bldg	Irregular x --	30,225					
24	Shop bldg	Irregular x --	22,625			88	Warehouse	100 x 45 x --	4,500				140	Shop bldg	85 x 65 x --	4,225					
25	Warehouse	135 x 40 x --	5,400			89	Warehouse	100 x 45 x --	4,500				141	Laboratory bldg	98 x 535 x 45-65	61,975					
26	Warehouse	Irregular x --	6,500			90	Warehouse	100 x 45 x --	4,500				142	Utility bldg	80 x 85 x --	720					
27	Warehouse	150 x 40 x --	6,000			91	Warehouse	100 x 45 x --	4,500				143	Warehouse	100 x 45 x --	4,500					
28	Warehouse	Irregular x --	6,900			92	Warehouse	100 x 45 x --	4,500				144	Warehouse	100 x 45 x --	4,500					
29	Warehouse	70 x 30 x --	2,100			93	Warehouse	100 x 45 x --	4,500				145	Warehouse	100 x 45 x --	4,500					
30	Utility bldg	35 x 35 x --	1,225			94	Warehouse	100 x 45 x --	4,500				146	Warehouse	100 x 45 x --	4,500					
31	Utility bldg	50 x 40 x --	2,000			95	Warehouse	100 x 45 x --	4,500				147	Warehouse	100 x 45 x --	4,500					
32	Warehouse	Irregular x --	10,820			96	Warehouse	65 x 30 x --	1,950				148	Warehouse	100 x 45 x --	4,500					
33	Utility bldg	35 x 35 x --	1,225			97	Warehouse	100 x 45 x --	4,500				149	Warehouse	100 x 45 x --	4,500					
34	Utility bldg	75 x 35 x --	2,625			98	Warehouse	115 x 45 x --	5,175				150	Warehouse	100 x 45 x --	4,500					
35	Utility bldg	40 x 30 x --	1,200			99	Warehouse	100 x 45 x --	4,500				151	Warehouse	100 x 45 x --	4,500					
36	Warehouse	100 x 30 x --	3,000			100	Utility bldg	70 x 20 x --	1,400				152	Warehouse	100 x 45 x --	4,500					
37	Warehouse	Irregular x --	4,200			An ejection nest tower is located adjacent to this bldg	101	Shop bldg	Irregular x --	12,450				153	Laboratory/ admin bldg	125 x 70 x --	8,750			Multitertiary	
38	Utility bldg	50 x 30 x --	1,500				102	Utility bldg	40 x 20 x --	800				154	Warehouse	100 x 45 x --	4,500				
39	Utility bldg	100 x 40 x --	4,000				103	Utility bldg	40 x 20 x --	800				155	Warehouse	100 x 45 x --	4,500				
40	Utility bldg	75 x 30 x --	2,250				104	Utility bldg	40 x 20 x --	800				156	Warehouse	100 x 45 x --	4,500				
41	Utility bldg	55 x 35 x --	1,925				105	Warehouse	160 x 45 x --	7,200				157	Warehouse	100 x 45 x --	4,500				
42	Utility bldg	40 x 30 x --	1,200				106	Shop bldg	Irregular x --	55,175				158	Warehouse	100 x 45 x --	4,500				
43	Warehouse	185 x 55 x --	10,175				107	Warehouse	160 x 45 x --	7,200				159	Warehouse	100 x 45 x --	4,500				
44	Warehouse	185 x 55 x --	10,175				108	Utility bldg	40 x 30 x --	1,200				160	Warehouse	100 x 45 x --	4,500				
45	Warehouse	185 x 55 x --	10,175				109	Utility bldg	Irregular x --	1,950				161	Warehouse	100 x 45 x --	4,500				
46	Utility bldg	40 x 30 x --	1,200				110	Warehouse	Irregular x --	10,925				162	Warehouse	100 x 45 x --	4,500				
47	Utility bldg	100 x 40 x --	4,000			111	Warehouse	Irregular x --	8,400				163	Warehouse	100 x 45 x --	4,500					
48	Warehouse	180 x 55 x --	10,450			112	Laboratory bldg	Irregular x 45	10,400				164	Warehouse	100 x 45 x --	4,500					
49	Utility bldg	60 x 30 x --	1,800			Probably a test and evaluation laboratory for space systems; probably contains a thermobaric chamber and other test equipment (see item 113)	113	Bottle farm	-- x -- x --	--			165	Warehouse	100 x 45 x --	4,500					
50	Steamplant	70 x 60 x --	4,200				114	Warehouse	100 x 45 x --	4,500				166	Warehouse	100 x 45 x --	4,500				
51	Utility bldg	55 x 30 x --	2,750				115	Warehouse	100 x 45 x --	4,500				167	Warehouse	100 x 45 x --	4,500				
52	Steamplant	180 x 60 x --	7,800				116	Laboratory bldg	Irregular x 40-50	64,775				168	Warehouse	100 x 45 x --	4,500				
53	Transformer yard	-- x -- x --	--				Thirty-two horizontal pressure bottles aligned in 2 rows of 16 each; each bottle measures approx 70 ft long with diam 12 in. are connected with 1 laboratory bldgs (items 112 & 116) by an overhead pipeline	117	Warehouse	100 x 45 x --	4,500			169	Warehouse	100 x 45 x --	4,500				
54	Utility bldg	80 x 30 x --	1,200					118	Warehouse	100 x 45 x --	4,500				170	Warehouse	100 x 45 x --	4,500			
55	Utility bldg	20 x 15 x --	300					119	Warehouse	100 x 45 x --	4,500				171	Warehouse	100 x 45 x --	4,500			
56	Utility bldg	80 x 40 x --	2,000					120	Warehouse	100 x 45 x --	4,500				172	Warehouse	100 x 45 x --	4,500			
57	Utility bldg	75 x 30 x --	2,250					121	Warehouse	100 x 45 x --	4,500				173	Warehouse	100 x 45 x --	4,500			
58	Concrete batch plant	Irregular x --	2,950					122	Warehouse	100 x 45 x --	4,500				174	Warehouse	100 x 45 x --	4,500			
59	Utility bldg	80 x 15 x --	800			123		Warehouse	100 x 45 x --	4,500				175	Warehouse	100 x 45 x --	4,500				
60	Warehouse	875 x 65 x --	17,875			124		Warehouse	100 x 45 x --	4,500				176	Warehouse	100 x 45 x --	4,500				
61	Warehouse	875 x 65 x --	17,875			125		Warehouse	100 x 45 x --	4,500				177	Warehouse	100 x 45 x --	4,500				
62	Warehouse	580 x 65 x --	37,700			126		Warehouse	100 x 45 x --	4,500				178	Warehouse	100 x 45 x --	4,500				
63	Warehouse	875 x 65 x --	17,875			127	Warehouse	100 x 45 x --	4,500				179	Warehouse	100 x 45 x --	4,500					
64	Warehouse	875 x 65 x --	17,875			128	Warehouse	100 x 45 x --	4,500				180	Warehouse	100 x 45 x --	4,500					

\*Completion dates are not stated because of gaps in photographic coverage. Most of the small structures were apparently complete when first observed. Where determinable, completion dates of the major structures are presented in the text.

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010007-7

TOP SECRET

25X1

25X1

25X1

25X1

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010007-7

TOP SECRET

25X1

REFERENCES

25X1

MAPS OR CHARTS

ACIC Series, Scale 1:200,000

DOCUMENT

25X1

REQUIREMENT

CIA. C-D15-82,973

NPIC PROJECT

11212/66 (partial answer)

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010007-7

TOP SECRET

25X1

25X1

25X1

25X1

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010007-7

Approved For Release 2003/06/24 : CIA-RDP02T06408R000600010007-7